



JEPPIAAR
ENGINEERING COLLEGE

(A CHRISTIAN MINORITY INSTITUTION)

JEPPIAAR NAGAR, RAJIV GANDHI SALAI, CHENNAI – 600119

Curricular Details

Faculty

AY – (2019-2020)

PRINCIPAL
JEPPIAAR ENGINEERING COLLEGE
JEPPIAAR NAGAR,
RAJIV GANDHI SALAI,
CHENNAI - 600119

Faculty Achievement Curricular

<i>Academic Year* -select-</i>	2019-20
<i>Number of Research papers published in Journals*</i>	24
<i>Number of patents granted*</i>	00
<i>Number of papers published in National Conferences*</i>	04
<i>Number of papers published in International Conferences*</i>	15
<i>Number of Books Authored *</i>	01
<i>Number of book chapters authored*</i>	01
<i>Number of new externally funded research projects received *</i>	03
<i>Fund received during this academic year*</i>	Rs.85,920

List of Journal Articles Published 2019-20

1. Thiagarajan, K.; Girija, M.S.; Tapas Babu, B.R. Proportional Cram on Crooked Crisscross for N-Hop Systems. *Learning and Analytics in Intelligent Systems*, 2020, 3, 652–660. https://doi.org/10.1007/978-3-030-24322-7_77
2. Thiagarajan, K.; Rajeswari, V.; Chandrasekaran, A.D. (2,3)-Remoteness Association of Corridor Network P_nP_n Under IBEDE and SIBEDE Loom. *Learning and Analytics in Intelligent Systems*, 2020, 3, 599–603. https://doi.org/10.1007/978-3-030-24322-7_71
3. Subramanian, K.; Sathiyagnanam, A.P.; Dillikannan, D.; Sivashanmugam, N. Artificial neural network based prediction of a direct injected diesel engine performance and emission characteristics powered with biodiesel. *Materials Today: Proceedings*, 2020, 43, 1049–1056. <https://doi.org/10.1016/j.matpr.2020.08.015>
4. Arul, S.M.; Umamageswari, R.M. On the achromatic number of certain distance graphs. *International Journal of Mathematics and Computer Science*, 2020, 15(4), 1187–1192.

5. Kalimuthan, C.; Arokia Renjit, J. Review on intrusion detection using feature selection with machine learning techniques. *Materials Today: Proceedings*, 2020, 33, 3794–3802. <https://doi.org/10.1016/j.matpr.2020.06.218>
6. George Fernandez, I.; Arokia Renjit, J. Resource allocation, scheduling and auto-scaling algorithms for enhancing the performance of cloud using Grey Wolf Optimization and fuzzy rules. *Journal of Intelligent and Fuzzy Systems*, 2020, 39(5), 7449–7467. <https://doi.org/10.3233/JIFS-200787>
7. Arul, S.M.; Umamageswari, R.M. Approximation algorithms for the H-graphs. *Advances in Mathematics: Scientific Journal*, 2020, 9(10), 8799–8805. <https://doi.org/10.37418/amsj.9.10.103>
8. Antony Rosewelt, A.; Arokia Renjit, J. A content recommendation system for effective e-learning using embedded feature selection and fuzzy DT based CNN. *Journal of Intelligent and Fuzzy Systems*, 2020, 39(1), 795–808. <https://doi.org/10.3233/JIFS-191721>
9. Ganesan, G.; Babu, K. Utilization of Taguchi technique to enhance the interlaminar shear strength of wood dust filled woven jute fiber reinforced polyester composites in cryogenic environment. *Journal of Natural Fibers*, 2020, 1–12. <https://doi.org/10.1080/15440478.2020.1789021>
10. S, S.; Suresh Kumar, S.; Shanmugam, S.; Ganesan, G. Evaluation of mechanical and water absorption behavior of natural fiber-reinforced hybrid biocomposites. *Journal of Natural Fibers*, 2020, 1–11. <https://doi.org/10.1080/15440478.2020.1788487>
11. Kripa, S.; Jebastine, J. Efficient FPGA-based design for detecting cardiac dysrhythmias. *Advances in Intelligent Systems and Computing*, 2020, 1125, 511–520. https://doi.org/10.1007/978-981-15-2780-7_56
12. Lakshmi, C.; Jesu, P. Design of flexible multiplier using Wallace tree structure for ECC processor over Galois field. *Lecture Notes on Data Engineering and Communications Technologies*, 2020, 35, 763–770. https://doi.org/10.1007/978-3-030-32150-5_77
13. Bhaskar, N.; Mohan Kumar, M. Cohort of crowdsourcing – survey. *Lecture Notes on Data Engineering and Communications Technologies*, 2020, 44, 883–892. https://doi.org/10.1007/978-3-030-37051-0_99
14. Joy, N.; Prakash, S.; Krishnamoorthy, A.; Antony, A. Experimental investigation and analysis of drilling in Grade 5 Titanium alloy (Ti-6Al-4V). *Materials Today: Proceedings*, 2020, 21, 335–339. <https://doi.org/10.1016/j.matpr.2019.05.458>
15. Rajeswari, V.; Thiagarajan, K. Maximum degree based vertex graceful labeling graph with even labeling on edges. *Smart Innovation, Systems and Technologies*, 2020, 159, 261–267. https://doi.org/10.1007/978-981-13-9282-5_24
16. Thiagarajan, K.; Rajeswari, V.; Natarajan, P. Maximum degree based vertex graceful labeling graph with odd labeling on edges. *Smart Innovation, Systems and Technologies*, 2020, 159, 287–295. https://doi.org/10.1007/978-981-13-9282-5_26
17. Adithya Pothan Raj, V.; Mohan Kumar, M. Segmenting medical image data set with inhomogeneous intensities by using level sets. *International Journal of Advanced Science and Technology*, 2019, 28(19), 1013–1023.
18. Vijayaraman, V.; Jesu, P. Prediction and automation of road traffic using Internet of Things. *Proceedings of I-SMAC*, 2019, 173–175. <https://doi.org/10.1109/I-SMAC47947.2019.9032489>
19. Dillikannan, D.; Babu, R.K.; Kaliyaperumal, G.; De Poures, M.V.; Sethuramasamyraja, B. Utilization of waste plastic oil in diesel engines: A review. *Reviews in Environmental Science and Biotechnology*, 2019, 18(4), 681–697. <https://doi.org/10.1007/s11157-019-09516-x>
20. Rajendra Prasath, B.; Devan, P.K. Evaluation of performance and emissions of ceramic coated turbocharged direct injection diesel engine operated with diesel and biodiesel blends. *IOP Conference Series: Materials Science and Engineering*, 2019, 653, 012035. <https://doi.org/10.1088/1757-899X/653/1/012035>

21. Pradeep, M.; Sathishkumar, S.; John de Britto, C.; Sankara Subramanian, A.T. Recognition of fault and security of three phase induction motor by means of programmable logic controller. *IOP Conference Series: Materials Science and Engineering*, 2019, 623, 012017. <https://doi.org/10.1088/1757-899X/623/1/012017>
22. Vadivel, V.; Sultan, S.A.; Shameem, A.; Athimoolam, S.; Lakshmi, K.U.; Vinitha, G. Synthesis and characterization of nonlinear optical single crystal for optical power limiting applications. *Journal of Molecular Structure*, 2019, 1191, 110–117. <https://doi.org/10.1016/j.molstruc.2019.04.091>
23. Ramalingam, R.A.; Dhanalakshmi, R.; Maria Anu, V.M. Implementation of TensorFlow for real-time object detection. *International Journal of Recent Technology and Engineering*, 2019, 8(2), 2342–2345. <https://doi.org/10.35940/ijrte.B1265.0982S1119>
24. Satish Kumar, S.S.; Sasi Kumar, M. Diminution of harmonics in cascaded multilevel inverter using third harmonics injection PWM technique. *International Journal of Recent Technology and Engineering*, 2019, 8(3), 7493–7497. <https://doi.org/10.35940/ijrte.C5072.098319>
25. Duraimurugan, S.; Jesu, P. Maximizing quality of multimedia streaming services in heterogeneous wireless networks using optimal multi-server technique. *Cluster Computing*, 2019, 22, 12883–12895. <https://doi.org/10.1007/s10586-018-1797-8>
26. Raman, C.J.; Visumathi, V. FCC: Fast congestion control scheme for wireless sensor networks using hybrid optimal routing algorithm. *Cluster Computing*, 2019, 22, 12701–12711. <https://doi.org/10.1007/s10586-018-1744-8>
27. Thilagavathy, R.; Sabitha, R. Using cloud effectively in concept based text mining using grey wolf self organizing feature map. *Cluster Computing*, 2019, 22, 10697–10707. <https://doi.org/10.1007/s10586-017-1159-y>
28. Thiagarajan, K.; Balasubramanian, P.; Navaneetham, K.; Brahnam, S. Amendable automaton for the language of finite strings of rectangular Hilbert curve. *Journal of Discrete Mathematical Sciences and Cryptography*, 2019, 22(6), 1129–1140. <https://doi.org/10.1080/09720529.2019.1689611>
29. Balan, K.N.; et al. Investigation on emission characteristics of alcohol biodiesel blended diesel engine. *Energy Sources, Part A*, 2019, 41(15), 1879–1889. <https://doi.org/10.1080/15567036.2018.1549166>
30. Illavarason, P.; Arokia Renjit, J.; Mohan Kumar, M. Medical diagnosis of cerebral palsy rehabilitation using eye images in machine learning techniques. *Journal of Medical Systems*, 2019, 43(8), 278. <https://doi.org/10.1007/s10916-019-1410-6>